

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. - 5. cancel

6. (new): An alternator comprising:

a rotor fixed to a shaft so as to rotate with said shaft;

a stator disposed so as to surround said rotor, an alternating current

being generated in said stator by a rotating magnetic field from said rotor; and

a voltage control apparatus for adjusting magnitude of an output voltage
of said alternating current generated in said stator,

wherein:

said voltage control apparatus comprises

a grounded, electrically-conductive heat sink; and

a control main body fixed to said heat sink, said control main body including an
integrated circuit chip on which a circuit for controlling said output voltage is formed.

7. (new): The alternator according to Claim 6, wherein

a positioning portion for positioning said control main body relative to said heat sink is
disposed on said heat sink so as to project from a major surface of said heat sink to which said
control main body is fixed.

8. (new): The alternator according to Claim 6, wherein:

a blocking portion is disposed on said heat sink between a connector having terminals for electrical connection to an external portion and said integrated circuit chip, said blocking portion blocking electromagnetic noise from said connector.

9. (new): The alternator according to Claim 6, wherein:

said control main body is a molded package in which said integrated circuit chip is enveloped in a resin.

10. (new): The alternator according to Claim 9, wherein:

said molded package has a hexahedral shape; and

said heat sink has a substantially angular C-shaped cross section and is placed in close contact with at least three surfaces of said molded package excluding a surface from which connecting terminals project.